Program: EXTC Engineering Curriculum Scheme: Rev2016 Examination: Second Year Semester-IV Course Code: ECC402 and

Course Name: E.D.C-II

Max. Marks: 50

For the students:- All the Questions are compulsory and carry equal marks .

Time: 1 hour

Q1.	The enhancement type of MOSFET works only with
Option A:	large positive gate voltage
Option B:	large negative gate voltage
Option C:	large positive drain voltage
Option D:	large negative drain voltage
Q2.	The type of MOSFET with the inbuilt channel between the
	drain and the source terminals has drain current even with the application of
	zero gate to source voltage
Option A:	Depletion MOSFET
Option B:	Enhancement MOSFET
Option C:	Depletion-Enhancement MOSFET
Option D:	None of the above
Q3.	The drain current of DMOSFET as negative Vgs is increased
Option A:	Increases
Option B:	Decreases
Option C:	Not effected
Option D:	Saturates
Q4.	The Q point Should lie in the region for MOSFET to operate as an
	amplifier
Option A:	Ohmic
Option B:	Cut off
Option C:	Saturation
Option D:	Ohmic and saturation
Q5.	MOSFET biasing circuit should adjust the Q point in the region for
	operating it as a switch.
Option A:	Saturation
Option B:	Ohmic
Option C:	Cut off
Option D:	Avalanche
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Q6.	biasing circuit is used for the enhancement type of MOSFET
Option A:	Feedback
Option B:	Self
Option C:	Fixed
Option D:	None of the above

Q7.	RC coupling is used for amplification
Option A:	Voltage
Option B:	current
Option C:	power
Option D:	None of the above
Q8.	Direct coupling in two stage cascade amplifier
Option A:	Effect the Q point of second stage
Option B:	Does not change the Q point of second stage
Option C:	Uses capacitors for coupling
Option D:	Blocks dc from first stage
Q9.	The input impedance of the Darlington pair is
Option A:	Extremely low
Option B:	Extremely high
Option C:	medium
Option D:	Floating
Q10.	Following is an hybrid amplifier
Option A:	CE-CE
Option B:	CS-CS
Option C:	CS-CE
Option D:	All of the above
Q11.	Cascode amplifer is
Option A:	CS-CS
Option B:	CE-CE
Option C:	CB-CB
Option D:	CE-CB
Q12.	Cascode amplifier provides
Option A:	Low input impedance and low voltage gain
Option B:	Low input impedance and high voltage gain
Option C:	High input impedance and low voltage gain
Option D:	High input impedance and high voltage gain
0.12	
Q13.	Transformer coupling blocks
Option A:	DC signal
Option B:	AC signal
Option C:	DC and AC signal
Option D:	None of the above
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Q14.	The overall voltage gain of a cascaded multistage amplifier is equal to
Option A:	The addition of the individual voltage gains
Option B:	The product of the individual voltage gains
Option C:	Subtraction of the second stage from first stage
Option D:	Subtraction of the first stage from the second one

Q15. RC coupling amplifier is used for the Option A: Resonant amplifiers Option A: Radio frequency amplifier Option D: Audio frequency amplifier Option D: GHz frequency amplifier Q16. The higher cut off frequency of a multistage amplifier using BJT depends Option A: Coupling capacitors Option A: Stray capacitance between the base and the collector Option D: None of the above Q17. The maximum efficiency of transformer coupled Class A amplifier is Option A: 90% Option A: 90% Option C: 75% Option D: 100% Q18. Transformer coupled Class A amplifier is useful High impedance loads Option A: High impedance loads Option B: Low impedance loads Option D: Infinite load Q19. The transistor is biased at in class B amplifier Option A: Saturation region Option B: Active region Option C: Cut off region Option C: Cut off region Q20. Heat sink is required in power transistor to Option B: Active region Option C: Provide electrical connection Option C: Provide electrical connection Option D: None of the above Q21. Voltage shunt is a type offeedback amplifier Q22. Series series Option A: Series series Option A: Series series Option C: Shunt -shunt Option C: Shunt -shunt Option C: Shunt -shunt Option A: Series series Option A: Series series Option A: Series series Option C: Shunt -shunt Option C: Shunt -shunt Option C: Shunt -shunt Option C: External ac input Option C: None of the above		(Lead conege photename)
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Option A: Positive feedback Option B: Negative feedback Option C: External ac input		
Option B: Negative feedback Option C: External ac input	Q22.	Oscillator uses
Option C: External ac input	Option A:	Positive feedback
<u> </u>	Option B:	Negative feedback
Option D: None of the above		
	Option D:	None of the above

For a feedback factor of value 1/3 in wien bridge oscillator, the gain of the
amplifier should be atleast equal to for sustained oscillations.
2
3
1
2.5
Crystal oscillator provides
Highly stable frequency
Unstable frequency
Variable frequency
Very small frequencies
Colpitt's oscillator is an
RC oscillator
Crystal oscillator
LC oscillator
None of the above